

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
25 January 2001 (25.01.2001)

PCT

(10) International Publication Number
WO 01/06650 A1

(51) International Patent Classification⁷: H03J 5/02

(21) International Application Number: PCT/US00/19617

(22) International Filing Date: 19 July 2000 (19.07.2000)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/144,458 19 July 1999 (19.07.1999) US
60/144,465 19 July 1999 (19.07.1999) US

(71) Applicant (for all designated States except US): THOMSON LICENSING S.A. [FR/FR]; 46, quai Alphonse Le Gallo, F-92648 Boulogne Cedex (FR).

(72) Inventor; and

(75) Inventor/Applicant (for US only): WETZEL, Daniel, Thomas [US/US]; 6312 Joshua Tree Place, Indianapolis, IN 46237 (US).

(74) Agents: TRIPOLI, Joseph, S. et al.; Thomson multimedia Licensing Inc., P.O. Box 5312, 2 Independence Way, Princeton, NJ 08540 (US).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

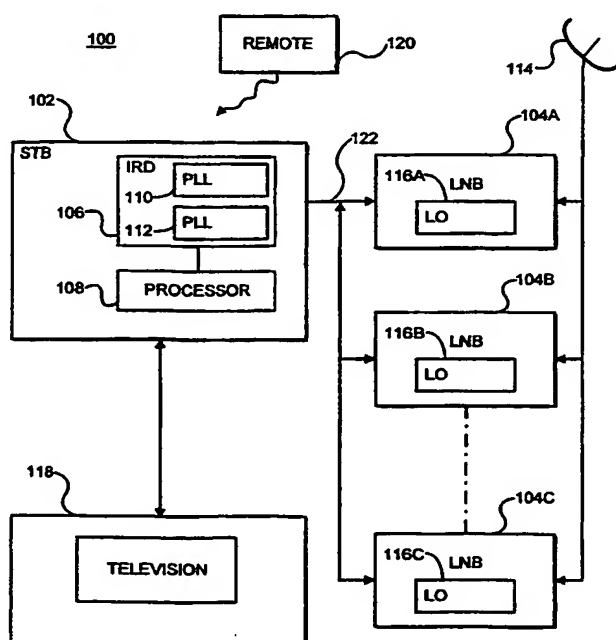
(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published:

— With international search report.

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: TUNING SYSTEM FOR ACHIEVING RAPID SIGNAL ACQUISITION FOR A DIGITAL SATELLITE RECEIVER



(57) Abstract: A method and apparatus for compensating for frequency drift in an LNB (104A-104C) by storing the frequency offset of each LNB (104A-104C) with respect to each channel. When a channel is selected, a particular LNB (104A-104C) is activated and the table of offset values is consulted. The offset value for the LNB and channel is used to tune the LNB (104A-104C) to a frequency that is appropriate for receiving the selected channel.

WO 01/06650 A1